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INTERIM REPORT
OF THE SELECT
COMMITTEE ON
MINING OF THE
ONTARIO
LEGISLATURE

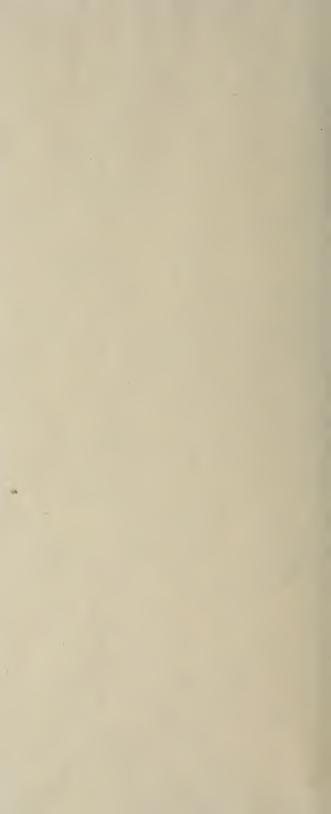
MR. RENE BRUNELLE, M.P.P., CHAIRMAN

MAY 1965



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REPORT of the SELECT COMMITTEE on MINING of the ONTARIO LEGISLATURE

MR. RENE BRUNELLE, M.P.P.



PRINCIPAL MINING AREAS OF ONTARIO



KEY TO SYMBOLS

Ag	Silver	FI	— Fluorspar	Pt	Platinum
Asb	- Asbestos	Gyp	—- Gypsum	Se	— Selenium
Αu	Gold	Ne	- Nepheline syenite	Te	— Tellurium
Co	— Cobalt	Ni	Nickel	Th	Thorium
Cu	— Copper	Pb	— Lead	U	Uranium
Fe	Iron	Pd	— Palladium	Zn	Zinc

Courtesy of Dept. of Mines

Acknowledgements

In acknowledging the splendid assistance and co-operation extended to the Select Committee on Mining by officials of mining companies, mills, plants, and municipalities, it must also be stated that they impressed the Committee with their sincere desire to make a direct contribution toward the improvement of Ontario's rapidly expanding mining industry.

To date a considerable number of briefs have been received from a cross-section of those who can be considered the voice of mining in Ontario: the Ontario Mining Association; mining municipalities; labour unions; individual mining companies; mining engineers and consultants; prospectors; and the investor. To these and many more the Committee is indebted for the many thought-provoking briefs submitted and for the many acts of kindness extended to us during inspection tours.

Select Committees are largely dependent on the assistance and co-operation they receive from companies, associations, government departments and agencies. This Committee is no exception, and the services of all the above have been provided willingly and freely on numerous occasions.

The services of various departments of government were heavily relied upon for information and technical assistance. A special word of gratitude is extended to the Minister of Mines, the Honourable George C. Wardrope, who has been most co-operative and helpful in making the services and facilities of his offices open to frequent requests for assistance. During inspection tours and public hearings the departmental geologists were most helpful in providing technical assistance to the Committee, for which we are most appreciative.



Interim Report

- 1. On the 8th of May, 1964, the Legislative Assembly of the Province of Ontario appointed a Select Committee on Mining:
- 2. Thirteen members were nominated to the Committee, as follows:

Rene Brunelle, Chairman

Dalton Bales A. Alexander Mackenzie
J. C. G. Demers William G. Noden
R. Allan Eagleson Clarke T. Rollins
E. G. Freeman Elmer W. Sopha
Lorne C. Henderson John P. Spence
R. Glen Hodgson R. A. H. Taylor

Mr. George Mason was appointed Secretary to the Committee on the 8th of June, 1964.

3. Under the powers granted to it with respect to the convening of sessions, the receiving of briefs and presentations, and the examining of witnesses, and within the broad framework of its terms of reference as defined above, the Committee immediately commenced its work. In a public announcement of the establishment of the Commitee, civic heads, corporate bodies, associations, and private persons were invited to present submissions pertaining to the performance and functioning of the mining industry in the Province of Ontario. During the month of July, 1964, the members toured mining municipalities of northeastern Ontario from Timmins to the Sudbury Basin for the

purpose of gaining first-hand knowledge of the nature of mining operations, both on the surface and underground, the setting of the industry, and the problems and needs of the mining community as a whole.

- The first public hearing was conducted on the 14th of October, 1964; between then and the 13th of January, 1965, numerous meetings were held in Toronto, Hastings County and in the north country, at which documents, statements and submissions, some comprehensive and formally presented, others shorter and of a more informal kind, were put forward for the Committee's consideration. The participants were questioned by the members of the Committee. Appendix "A" lists the dates and locations of these sittings. Appendix "B" carries particulars of the briefs received or promised from a wide range of interests: municipalities, municipal industrial commissions, mining companies and associations, broker-dealers, engineers, geologists and prospectors, trade unions, conservationists, community organizations, educationists and educational institutes, chambers of commerce, tourist groups, public utilities, government departments and agencies.
- 5. In the course of the Committee's deliberations a large number of problems bearing on the progress of the mining industry and on the welfare of the communities dependent upon it, have been brought to light. These are of a most varied nature. The following classification, while not exhaustive, does focus attention on the principal areas and facets of the mining complex towards which further enquiries will have to be directed:
- (a) Mining Communities: Municipal assessments; mining revenue payments; the burden of debt; borrowing powers; increased costs of basic facilities and essential services; mining effluents; effective pollution control; diversification and the provision of alternative employment opportunities; industrial relocation and the subsidization of new industry; roads and highways in relation to tourism and area development; instability of employment through fluctuating mineral markets, ore

- depletion, mine closures; problems of declining populations.
- (b) Mining Finance: Raising risk capital; primary distribution of mining shares through stock exchanges; the unlisted market; rules and controls for public protection; stock promoters; options; unethical practices; maintaining public confidence; the functions of the Toronto Stock Exchange and of the Ontario Securities Commission; development companies.
- Exploration: Assistance to prospectors through financial aid and rental of equipment; prospectors' licences; transferability of licences and of claims; claim staking procedures and requirements; staking fees; the recording of claims; map staking; concessions and exploration licences; scientific exploration techniques; study groups for prospectors; geological and geophysical surveys; reconnaissance maps and reports; magnetometer and electromagnetic surveys; assays and analyses; assessment credits; mining leases; patented claims; the breaking of patents; mineral rights and surface rights; forfeiture and expiry of rights; dormant and undeveloped properties; fragmentation of acreages; concentrated control of tracts with mineral potential; land grant holdings; multiple land use in provincial parks.
- The Work Force: Industrial injuries; mine safety practices and accident prevention; noise and dust control; mine rescue training units; occupational diseases; medical examining centres; physical working conditions; workmen's compensation; mechanization and retraining of miners; technical and vocational training for the unemployed; adult education in mining communities; attracting potential entrants into the industry through school curricula, exhibitions, museums, libraries, education centres of science and technology, and through incentives, both financial and social; the supply of and demand for engineers, geologists technicians; the Provincial Institute of Mining; schools of mining in the universities.

(e) The Mining Industry: Methods of production—the utilization of advanced mining and extractive techniques; efficient tools and equipment for drilling, loading, shaft sinking; nuclear blasting techniques; atomic energy as a power source; natural gas as fuel; the use of piped mill tailings; transporting solids through pipe lines; modern approaches to ore treatment; novel methods of processing; improved construction materials; transportation facilities:

Product development—effective use of by-products; quality improvements to increase value and marketability; new uses:

Economic research—forecasting developments and assessing future professional and technical requirements; consumer research, market surveys, demand prospects; investment plans;

organizational aspects of basic research and development—centralized research and training centres sponsored and directed by the industry; financial aid for economic and scientific research in universities; support for management training programmes in schools of business; the dissemination of technical information; co-operation among the Ontario Mining Association, the Ontario Department of Mines and the Department of Mines and Technical Surveys, Ottawa;

Taxation—write-offs and the determination of taxable income; interest payments on debts; tax incentives for research; deductions for exploration and prospecting costs; other preproduction expenses; depreciation and depletion allowances; retail sales tax exemptions; the acreage tax; rental rates; stumpage dues; limits to the yield of the mining tax or royalty; tax relief or incentive programmes to encourage mining and the processing of ores.

6. This arrangement of the subject matter of the Committee's field of interest is useful in defining the scope of its work and in demarcating the topics which it proposes to study further. In some cases

its labours will be greatly facilitated by the findings of other government-appointed boards of enquiry; for example, the Ontario Committee on Taxation whose report, it is expected, will be published before the end of the year; the recent report of the Kimber Commission which reviewed Securities legislation and stock-exchange procedures will be of valuable assistance to the Committee in its study on regulations governing the financing of mining prospecting and development.

7. On the basis of the presentations received to date and the observations made during inspections conducted in the mining areas of northeastern and eastern Ontario, the Committee is satisfied that there are substantial grounds for making the following firm recommendations:

(a) Mining Development in Provincial Parks:

The issue has been raised, both before the Committee and in public discussion, of allowing supervised exploration in provincial parks.

The Committee recommends that extensive geological and geophysical surveys be undertaken *prior* to the scheduling of areas as parks; and that every effort be made, in the establishment of new parks, to locate them in tracts of low mineralization.

(b) Mining Access Roads:

The need for further extension of the existing policy, whereby the Department of Mines participates in the financing of mining access roads, is apparent to the Committee.

It is recommended, accordingly, that the Department broaden its survey of possibilities in this respect, that it re-examine its regulations governing its work in this field with the aim of instituting a more comprehensive programme, and that it allocate additional funds for an extended and accelerated policy of road construction and restoration.

(c) The Provincial Institute of Mining:

As a result of the shortage of mining engineers, and with the advent of so many technological advances made in the

mining industry in the past few years, there has been an increasing demand for qualified engineering technicians and technologists.

The Ontario Department of Education has developed a Provincial Institute of Mining located at Haileybury, that is world renowned. Until 1964 Ontario stood alone in the production of qualified technicians and technologists trained expressly for the mining industry.

In 1964 British Columbia established its own mining institute which has been patterned after the very successful Ontario Institute of Mining. The Provincial Institute of Mining prepares students for a variety of mining occupations such as: mine surveyors and draftsmen, mine foremen, mill and laboratory technicians, and geological assistants. This school's broad course makes possible the ready transfer of graduates from one mining occupation to another according to individual preference or as company needs require.

Also, the knowledge of exploration, mine development and operation, makes possible the promotion of technicians to senior positions.

During a tour of the mining communities the Committee heard frequent and glowing references to the excellent training received by Provincial Institute of Mining graduates. On the basis of a questionnaire survey conducted by this Committee, we know from information provided by the mining companies that the present facilities of the Provincial Institute of Mining fall short of ensuring the education of the increased number of mining technicians the industry will require in three short years' time.

It is recommended that immediate action be taken by the Department of Education to ensure that the present accommodation, facilities and teaching staff of the Provincial Institute of Mining be extended to meet the constantly increasing number of applicants so that the necessary facilities will be ready for use when the school year begins in September 1966.

The Committee's very broad terms of reference have provided ample opportunity to probe and investigate a vast number of subjects. Research is presently underway into the very complex aspects affecting the economics of the mining industry. The Committee's Secretary has held talks with representatives of the Department of Natural Resources in Quebec and these have proven fruitful. Various attitudes of those most closely associated with mining have been probed with regard to a number of subjects affecting the industry. Much of this information and material has yet to be completely analyzed and evaluated.

The members of the Committee have not yet visited the mining areas located in the vast territory of northwestern Ontario.

Tentative plans have been drawn up to hold public meetings in this area, as already we have received communications from mining companies and municipalities indicating their desire to present briefs to this Committee. Inspection tours of this nature provide the members with a greater appreciation of the vastness of our Province, as well as the opportunity to gain first-hand knowledge of the needs of the people living in remote and sparsely populated areas.

The expanding gas and oil industry of southwestern Ontario, as well as the long established salt mining industry of the area, should also be inspected during the months that lie ahead.

It can be seen that a great deal of unfinished business must be completed by this Committee before it can attain its primary objective of finding ways and means of improving the mining industry. To accomplish this goal, it is humbly requested that the Committee be reappointed so that it may continue its work and make a lasting contribution to Ontario's expanding mining industry.

The above is faithfully submitted by the members of the Select Committee on Mining.

Rene Brunelle

Lactor Bales, M.P.P.

Jedemers

Mr. J. C. G. Demers, M.P.P.

RAEagleson

MR. R. ALAN EAGLESON, M.P.P.

E.G. Freeman

MR. E. G. FREEMAN, M.P.P.

Horne C. Henderson

MR. LORNE C. HENDERSON, M.P.P.

R Glen Hodgoon

MR. R. GLEN HODGSON, M.P.P.

Mr. A. ALEXANDER MACKENZIE, M.P.P.

wynoden

MR. WILLIAM G. NODEN, M.P.P.

Clark of Rollins
MR. CLARKE T. ROLLINS, M.P.P.

MR. ELMER W. SOPHA, M.P.P.

John Spence

MR. JOHN P. SPENCE, M.P.P.

R.a. tr. Taylor

MR. R. A. H. TAYLOR, M.P.P.

Appendix "A"

A list of the locations and dates of public meetings held to hear formal and informal submissions.

List of Public Meetings

Held to Date

1964

June 15 Queen's Park
June 16 Queen's Park

July 20—July 24 Tour of Northeastern Ontario (inclusive) —Timmins, Porcupine, Kirkland Lake, Haileybury, Cobalt

and Sudbury area.
Informal briefs were
presented during this

tour.

October 14 Queen's Park

October 15 Bancroft—Hastings County

October 16 Madoc and Marmora

—Hastings County

November 4 Queen's Park
November 5 Queen's Park

December 7 Wawa

December 8 Sault Ste. Marie
December 9 Elliot Lake
December 10 Sudbury
December 11 Timmins

1965

January 12 Queen's Park January 13 Queen's Park

Appendix "B"

A list of the names of the associations, municipalities, organizations, and individuals submitting written briefs to the Select Committee on Mining.

List of Formal Briefs

Received to Date

Ontario Mining Association

Corporation of the Township of Teck

The Association of Mining Municipalities of Northern Ontario

The Consumers' Gas Company

Township of Carlow

Mr. M. J. McGale, Prospector-New Liskeard

Improvement District of Beardmore Mr. Donald E. Sirola-Kirkland Lake Mr. H. G. Greene-Peterborough International Union of Mine, Mill and Smelter Workers Mr. Roderick MacDonald-Timmins The Corporation of the Town of Cobalt Village of Bancroft United Steelworkers of America Labow Mining Consultants Limited Town of Timmins Temiskaming Mine Operators Association Dr. George A. Collins, P. Eng.—Toronto Mr. J. Bardswich, P.Eng.—Sudbury Timmins-Porcupine Chamber of Commerce Caland Ore Company Limited Cobalt Refinery Company Broker-Dealers' Association of Ontario Department of Mineralogy—Royal Ontario Museum Department of Geology—Royal Ontario Ontario Petroleum Institute Inc.-Letter of Intention Canada Talc Industries Limited Village of Marmora Mr. James D. Cumming, P.Eng.—Madoc Mr. G. W. Walkey, B.A.Sc., P.Eng.—Timmins Mr. Earle Kelley—Porcupine Prospectors' Association Elk Lake Chamber of Commerce. United Steelworkers of America Hydro-Electric Power Commission of Ontario Mr. T. W. Kierans, P. Eng.—Sudbury Professor Winters and Chung—Laurentian University, Sudbury Sudbury Game & Fish Association Northeastern Ontario Chambers of Commerce Sudbury & District Chambers of Commerce Mr. R. R. Ranson-Sault Ste. Marie Mr. W. D. Sutherland, Consulting Geologist-Sault Ste. Marie Mr. T. N. MacAulay, M.Sc., P.Eng.-

Trans Canada Pipelines
Vauze Mines Limited
Town of Wawa—Township of Michipicoten

Sault Ste. Marie

Wawa Chamber of Commerce Wawa Circle Tourist Association James Sanders, D.C.—Wawa

Carl Nyman, Prospector—Wawa

R. Daniels-Wawa

Mr. R. L. Cavanaugh—Ontario Research Foundation

Northern Ontario Natural Gas

City of Sudbury

Watts, Giffis & McOuat, Consulting Geologists and Engineers—Toronto

Frontier College

R. D. Hindson, Canadian Institute of Mining Professor A. V. Corlett, P.Eng.—Kingston

N. R. Schindler, P.Eng.—Montreal

A. James Walker—Port Credit

Ontario Petroleum Institute Inc.

Gas Petroleum and Association of Ontario

Mr. Gordon Willsie-Thedford

Mr. O. E. Walli, Principal, Provincial Institute of Mining—Haileybury

Mr. Roy Barker, Prospector—Geraldton

Mr. Sherwin F. Kelly, Geophysicist & Geologist—Merritt, B.C.

Mr. T. W. Kierans, P.Eng.—Sudbury

MINERAL PRODUCTION 1963 AND 1964

NETALLIC MINERALS

			Value	866.200	830 725	8.950.213	174.762	6.484 255	2,305,000	328,233,604	143,855,362	102,892,490	15,954,893	53,863,546	5,592,989	22,192	1,789,234	81,996,719	25,196,159	2,213,182	43,556,719	508,830	623,128	85,418,271	193,285,404	1,704,622,877
	63 $CANADA$	7																(4)								\$1,7
ONTARIO)67 ·	Quantity	1,718,634 lbs.	387.213 lbs.	2,800.761 lbs.	158,875 lbs.	3,196,322 lbs.	2,250,000 lbs.	988,033,963 lbs.	3,810,738 ozs.	38,664,583 tons		400,770,432 lbs.	18,041,900 lbs.	5,548 lbs.	1,2/8,404 lbs.	405,749,775 lbs.	3/4,988 ozs.	448,750 lbs.	31,111,943 ozs.	79,789 lbs.	356,074 lbs.	13,828,369 lbs.	1,304,048,909 lbs.	
		17.1	v alue	\$ 624,489							150,473,161							300,392,038				499,413	126	130,909,119		\$1,510,403,586
	9/	Ougustin	Cunning	1,601,253 lbs.	359,125 lbs.	2,475,485 lbs.	98,673 lbs.	3,024,905 lbs.	1,393,444 lbs.	905,117,779 lbs.	3,980,044 ozs.	30,143,049 ton	400 300 624 11	402,329,071 Ibs.	17,010,346 108.	833 867 15	434 050 725 1bs	357,651,039,123,103,	468 772 lbs	20 027 773 028	76 842 lbs	027.062 lbs.	16 702 066 1bs.	10,703,000 1DS. 947 444 960 1bs	100,122,100,100	
	164	Value		-												42.566							74.361.393	19,390,110		\$711,698,931
	91	Ouantity				150 075 11-	2 210 245 lbs	2,217,040 100.	402 062 125 lbs	2 135 260 025	7.985 715 tone	The state of the s	3.976 464 lbs	18,041,900 lbs		31,070 lbs.	330,508,485 lbs.	374.988 ozs.	103,405 lbs.	10,719,539 ozs.	7,900 lbs.		12,035,382 lbs.	136,839,166 lbs.		
	53	Value	4	146			4.409.262				70,033,690												102,951,146	16,989,728		\$683,175,291
	961	Quantity		65 lbs.		98.673 lbs	2,156,732 lbs.		357,919,536 lbs.	2.338,854 ozs.	6,749,617 tons		3,077,814 lbs.	17,810,348 lbs.			298,178,570 lbs.	359,649 ozs.	95,100 lbs.	9,601,621 ozs.	7,705 lbs.		12,770,421 lbs.	132,939,970 lbs.		
			Antimonv				:		:		Iron Ore.	Iron Kemelt	Lead	Magnesium	Mercury		DISKEL				Tim		Cranium (U3O8)	ZInc	Total Matal	Otal Mctals

NON-METALLIC MINERALS

	Value	\$ 12,000	1,692,400	20,360	2,291,626	15.000	2,000	12,397,828	1,152,000	3,467,029	3,397,106	30,660,000	20,000	1,128,019	4,602,864 23,075,518	819,154	5,328,220	15,409,943	20,981,935	\$286,900,692
CANADA	Quantity	300,000 lbs.	1,2,415 tons	584 tons	siioi cioʻo	13 tons	10 tons	6,373,765 tons	1,049,783 lbs.	1 202 800 1bs	292,042 tons	245,117 tons 862,440 tons		356,349 tons	3,892,636 tons	57,150 tons	330,178 tons 434 776 tons	1,611,181 tons		
~		3,498	1,693,119	26,830	1,976,006	676,61	2,000	11,237,952	682,029	3,439,890	2,699,202	7,985,921	17,994	1,643,629	22,316,565	757,878	3.488.181	13,380,182	14,420,444	\$253,549,943
1001	Quantily	187,450 lbs.	173,503 tons	798 tons 8.608 tons	-11 000 51	10,000 108.	10 tons	5,955,266 tons 978 tons	644,354 lbs.	1,183,041 lbs.	254,000 tons	243,340 tons 626,860 tons		4/6,438 tons	3,721,994 tons	54,250 tons	353,243 tons	1.249,887 tons		
	Value	\$ 12,000					1 275	000,888,1		3,646	3,397,106	000,613		502 485	14,481,663	133,000	1,677,329	13,426		\$24,735,255
4RIO 1964	Quantity	300,000 lbs. 15,500 tons					100 000	*30,000 tolls		119,000 lbs.	292,042 tons	SIIO1 #7#'07		1.043.768 tons	3,265,909 tons	silon noc')				
ONT	Value	5,372,645					1 225 301	100,022,1		5,114	2.699,202	101,010		644,287	14,793,161	006,101	1,406,694	53,744		\$26,926,416
1963	Quantity	33.715 tons					439 206 tons			342,185 lbs.	30.659 tons			952,166 tons	3,187,491 tons	Wived tolls				
		Asbestos	Barite. Diatomite	Feldspar	Fluorspar	Graphite	Gypsum.	Iron Oxides.	Magnesitic Dolomite Brucite	Mica	Peat Moss.	Potash (K ₂ O)	Pyrite, pyrrhotite.	Quartz	Soapstone, Talc	Sodium-Sulphate.	Sulphur in Smelter Gas	Titanium Dioxide, etc.	Potent William Section	1 otal Non-Metallics

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